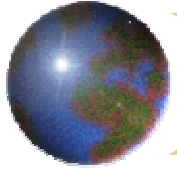


# *Istanze “open” nella comunicazione scientifica: open archives*

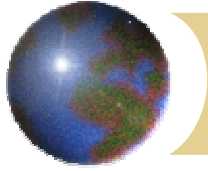
Susanna Mornati

CILEA



## *I concetti*

- ✦ “free” e “open-source”: gratuità o codice sorgente “aperto”?
- ✦ copyright vs. copyleft: proteggere i diritti economici o proteggere la disponibilità permanente del codice?



# *Crisi della comunicazione scientifica*

- ✚ Gli autori cedono i diritti degli articoli agli editori
- ✚ Gli editori impongono prezzi alti alle biblioteche per accedere agli articoli
- ✚ Poche istituzioni possono permettersi l'accesso
- ✚ Questa barriera limita il numero dei lettori e l'impatto delle ricerche

Le due slides successive sono tratte da un lavoro di Stevan Harnad

# Limited Access: Limited Research Impact

12-18 Months

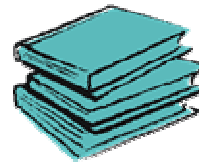
**Impact cycle begins:**

Research is done

Researchers write pre-refereeing "Pre-Print"



Submitted to Journal

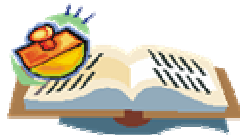


Pre-Print reviewed by Peer Experts – "Peer-Review"



Pre-Print revised by article's Authors

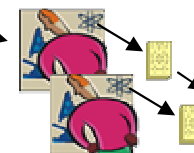
Refereed "Post-Print" Accepted, Certified, Published by Journal



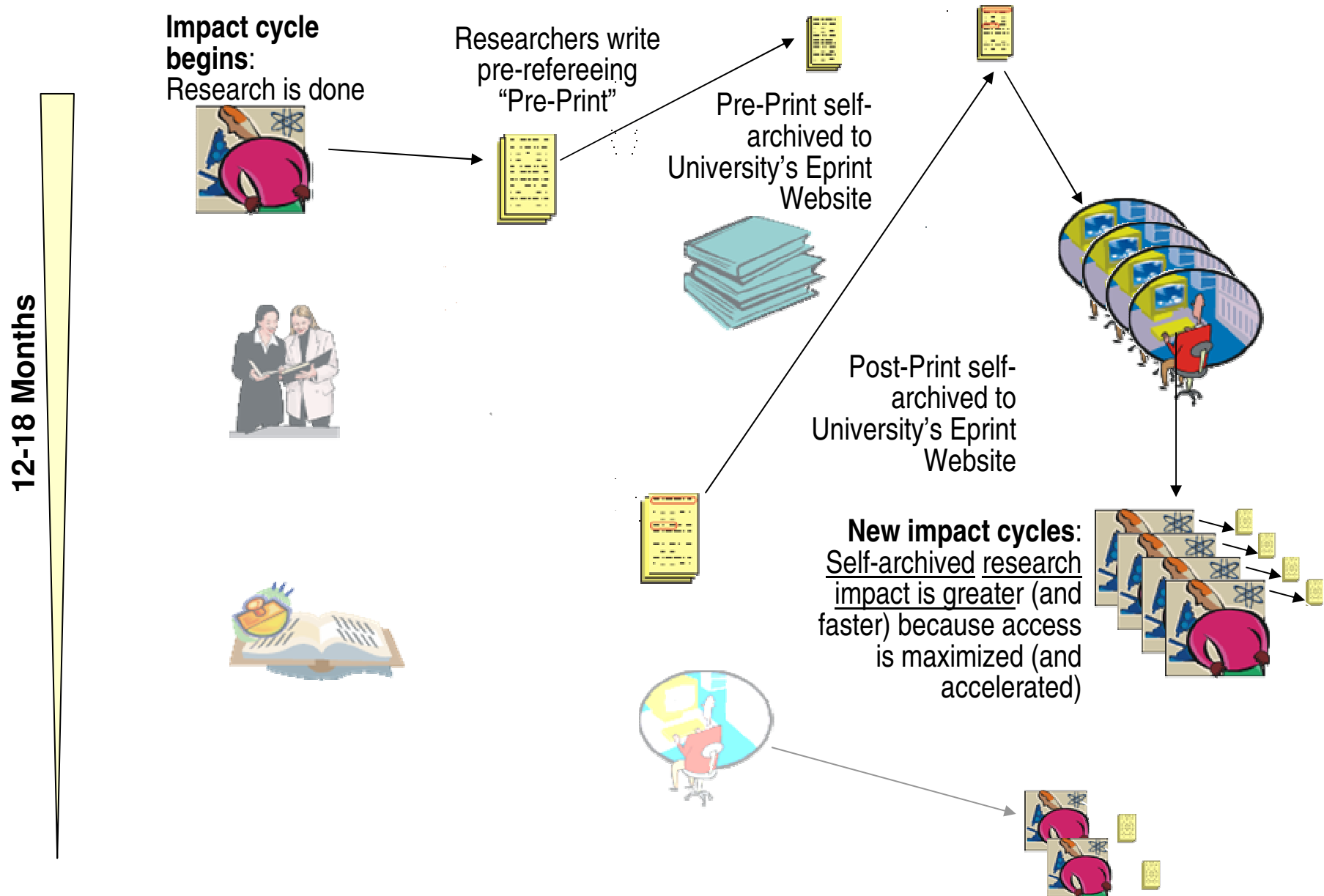
Researchers can access the Post-Print if their university has a subscription to the Journal

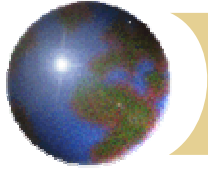


**New impact cycles:**  
New research builds on existing research



# Maximized Research Access and Impact Through Self-Archiving

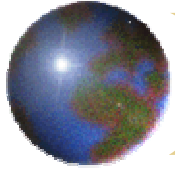




## *La rivoluzione tecnologica*

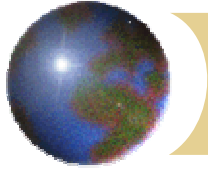
L'avvento delle nuove tecnologie:

- ✚ ha portato allo scoperto la crisi del modello tradizionale di publishing
- ✚ fornisce soluzioni alternative per disseminare la letteratura scientifica a costi contenuti
- ✚ offrono strategie complementari e non concorrenti per garantire l'*open access*



## *La soluzione degli Open Archives*

- ✚ impiego di tecnologia open source
- ✚ libero accesso ai risultati della letteratura scientifica tramite il self-archiving
- ✚ nuove forme di analisi citazionale e indicatori di performance indipendenti
- ✚ preservazione dei contenuti originali, veicolati da tecnologie digitali, tramite licenze innovative: copyleft

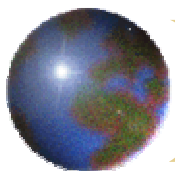


## *Cos'è un Open Archive*

- ✿ eprint: pre-print o post-print?
- ✿ archivi istituzionali o disciplinari
- ✿ architettura centralizzata o distribuita
  - ▣ arXiv per la fisica
  - ▣ RePEC per l'economia

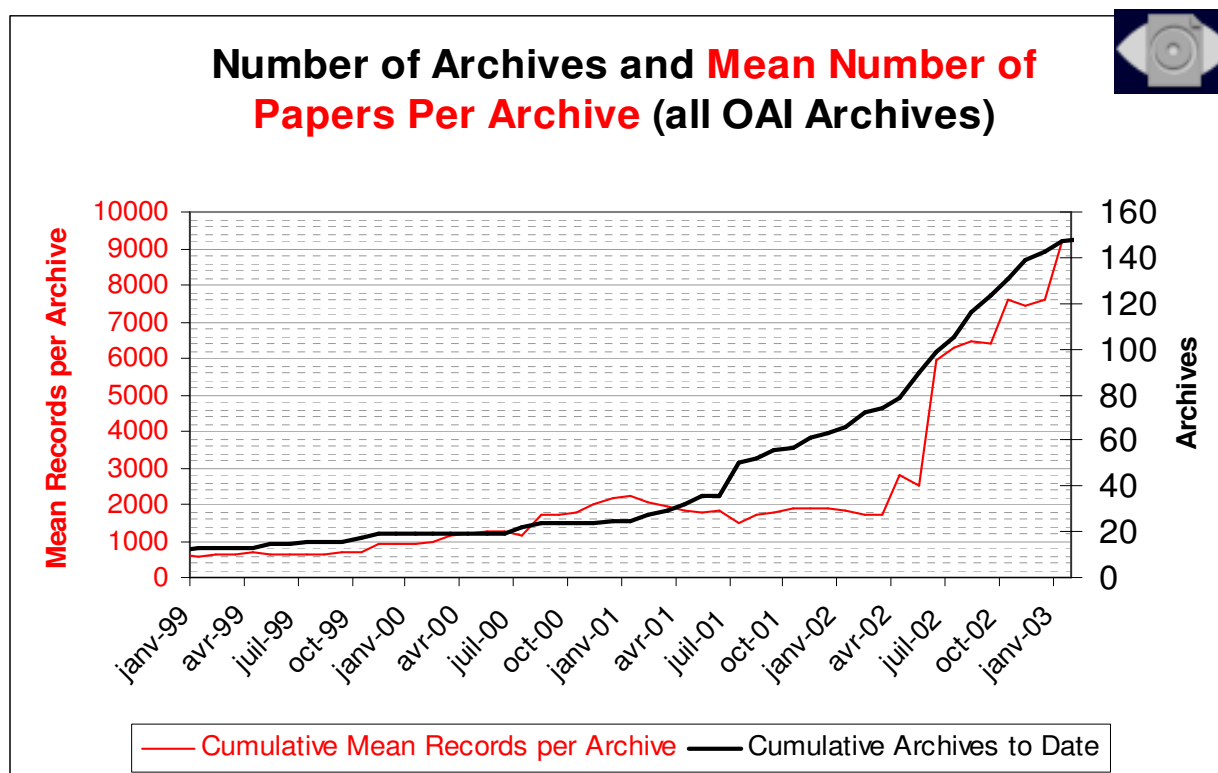
Perché l'espansione è lenta?

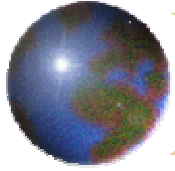




# *Growth in number of OAI Archives*

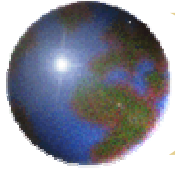
*(da un lavoro di Tim Brody e Stevan Harnad)*





## *L'Open Archives Initiative (OAI)*

- ✦ 1999: Santa Fe
- ✦ sviluppo di software open source per i repositories di eprints (Data Provider)
- ✦ OAI-PMH: protocollo di interoperabilità ("open" archives) e harvesting
- ✦ creazione di servizi centralizzati (Service Provider)



## *Il “case” E-LIS*

- ✿ archivio disciplinare specializzato per LIS (library & information science)
- ✿ creatori del team DOIS (MIMAS)
- ✿ software open source
  - ⊠ server CILEA con Linux Red Hat
  - ⊠ GNU Eprints: server http Apache, DBMS MySQL, script CGI in Perl

E-LIS - Welcome to Eprints for LIS - Microsoft Internet Explorer

File Modifica Visualizza Preferiti Strumenti ?

Indietro Cerca Preferiti Multimedia

Indirizzo <http://eprints.rclis.org/> Vai Collegamenti »

**E-LIS** [Home](#) - [About](#) - [Browse](#) - [Search](#) - [Register](#) - [Deposit](#) - [Help](#)

[Archive FAQ](#) - [Submission Policy](#) - [Copyright](#) - [Credits](#)

## Welcome to E-LIS

E-Prints in Library and Information Science

Search the Titles, Abstracts or Keywords



E-LIS is an electronic open access archive for scientific or technical documents, published or unpublished, in Librarianship, Information Science and Technology, and related application activities. E-LIS is an archive to deposit preprints, postprints and other LIS publications, it is a service for finding and downloading documents in electronic format, offered as a free service to the international LIS community. The goal of the E-LIS Archive is to promote communication in the field by the rapid dissemination of papers.

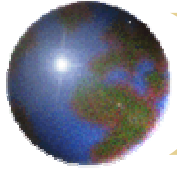
Eprints for LIS has been established as a community service by [rclis](#) (Research in Computing, Library and Information Science) to promote open access to papers on these fields. RCLIS is a project to build a database about current and past documents in computing, librarianship, information science and technology and related application activities.

In keeping with the objectives of the [EPrints movement](#) and the [Free Online Scholarship \(FOS\) movement](#), we expect this service to facilitate the LIS researchers in self-archiving and long-term preservation of their scholarly publications, provide easy access to these publications world wide and improve impact of their research.

By now, there are **327** articles in our Archive.

For all users		For registered users	
<p><a href="#">Simple Search</a></p> <p>Search the archive using the most common fields.</p>	<p><a href="#">Advanced Search</a></p> <p>Search the archive using a more range of fields.</p>	<p><a href="#">Deposit</a></p> <p>Registered users may submit documents to the archive.</p>	<p><a href="#">Get E-mail Alerts</a></p> <p>services require that you first <a href="#">register</a></p>

Internet



## *Funzionalità di E-LIS*

### ✚ di base (sw EPrints):

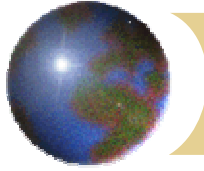
- ✚ area per tutti gli utenti: search, browse, last week
- ✚ area per utenti registrati: registrazione, alert, profilo, deposito

### ✚ parametrizzate:

- ✚ sistema di classificazione
- ✚ lista tipologie di materiale

### ✚ aggiunte:

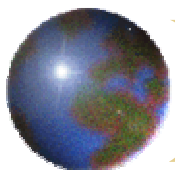
- ✚ contatore
- ✚ Paracite Tools



## *Copyright policies*

- ✿ importanza delle questioni IPR:
  - ⊠ in ambito open archives
  - ⊠ in ambito open-source software
  - ⊠ in ambito open contents
- ✿ dotare tutti i contenuti di licenze  
“copyleft” (es. Creative Commons)





## Project RoMEO

"Classical textual copyright law is designed for on-paper text that is sold for revenue. The primary protection of the author and the publisher from theft-of-copies-of-the-text, and only secondary misuse of the text (other than stealing it or selling it illicitly). In the digital era, and especially, the other rights must be very explicitly formulated. Professor's Oppenheim's is accordingly a support." *Professor Stevan Harnad*

The RoMEO Project (Rights METadata for Open archiving) is Systems Committee for one year (1 August 2002 - 31 July 2003) surrounding the 'self-archiving' of research in the UK academic Archive Initiative's Protocol for Metadata Harvesting.

It will perform a series of stakeholder surveys to ascertain how (and metadata) is used, and how it should be protected. Bilingual vocabularies (such as Open Digital Rights Language) are being developed. A solution for the protection of the IPR in metadata

➤ [About RoMEO](#)

➤ [Surveys](#)

➤ [Project Team](#)

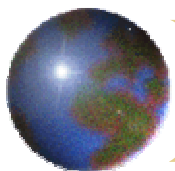
➤ [Deliverables](#)

➤ [Rights issues](#)

➤ [Copyright Policies](#)

➤ [Links](#)

➤ [Licences](#)



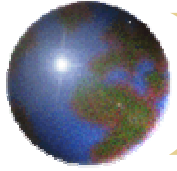
## *Indagine RoMEO: risultati*

### Copyright transfer agreement listing

#### Facts & Figures

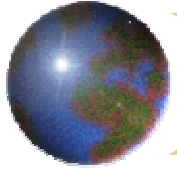
<b>RUNNING TOTAL:</b>	<b>Journal titles</b>	<b>%</b>	<b>Publishers</b>	<b>%</b>
<b>Total listed:</b>	<b>7,135</b>		<b>80</b>	
<b>Formally supporting self-archiving of EITHER preprint, post-print or both:</b>	<b>3,897</b>	<b>54.6%</b>	<b>34</b>	<b>42.5%</b>
<b>...both:</b>	<b>1,209</b>	<b>16.9%</b>	<b>20</b>	<b>25%</b>
<b>...preprint-only:</b>	<b>2,552</b>	<b>35.7%</b>	<b>7</b>	<b>8.7%</b>
<b>...postprint-only:</b>	<b>136</b>	<b>1.9%</b>	<b>7</b>	<b>8.7%</b>
<b>Not yet formally supporting self-archiving:</b>	<b>3,238</b>	<b>45.3%</b>	<b>46</b>	<b>57.5%</b>





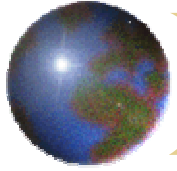
## *Oltre gli OA: il progetto AEPIC*

- ✚ Contesto: scarsità di servizi centralizzati
- ✚ Soluzione: piattaforma nazionale
- ✚ Architettura: insieme di *service provider* e portale
- ✚ Presupposti: *harvesting* da *data provider* tramite OAI-PMH
- ✚ Sviluppo: aggiunta di funzionalità



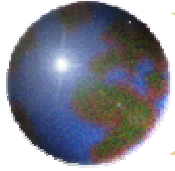
## *Servizi della piattaforma 1*

- ✚ Caching e indicizzazione
- ✚ Interfaccia evoluta per search e browse
- ✚ Citation parsing e Open URL per resolver
- ✚ Crosswalk di conversione per I/E
- ✚ Gateway per web crawlers



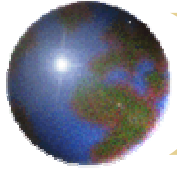
## *Servizi della piattaforma 2*

- ✚ Ricerca a testo pieno
- ✚ Statistiche di accesso e indicatori performance
- ✚ Estrazione dati per reporting
- ✚ Implementazione server Z39.50 per servizi discovery
- ✚ Time stamping, copyright, deposito legale, PURL, conservazione dati e metadati



## *Portale*

- ✚ Accesso unificato alla letteratura scientifica italiana
- ✚ Gestione profili di accesso, alerting, newsfeed
- ✚ Link alle iniziative OAI e strumenti tecnici
- ✚ Forum per le policies

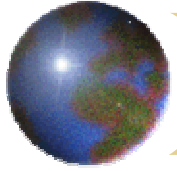


## *Problemi aperti*

### ✿ Stakeholders:

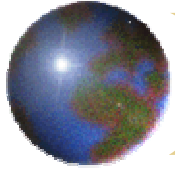
- ✿ modificare i criteri di valutazione della ricerca
- ✿ avviare con gli editori una negoziazione dei diritti
- ✿ adottare licenze di copyleft e metadati descrittivi

### ✿ Sviluppatori: costruire strumenti di DRM



## *Soluzioni*

- ✚ Collaborazione: progetti di respiro vasto e utilità comune
- ✚ Condivisione dei costi di progetto e sviluppo
- ✚ Integrazione delle risorse digitali tramite protocolli standard e piattaforme unificate



*Grazie per l'attenzione!*

Il cammino "open" è disseminato di sfide, ma l'auspicio è che possa essere percorso sino in fondo e che possa contribuire ad una più ampia diffusione della conoscenza e ad un più rapido progresso dell'umanità.

[www.aepic.it](http://www.aepic.it) \* Susanna Mornati \* [mornati@cilea.it](mailto:mornati@cilea.it)